METHOD AND APPARATUS FOR IMPLEMENTING INTELLIGENT SPIN-UP FOR A DISK DRIVE

Abstract of the Disclosure

A method and apparatus are provided for implementing intelligent
spin-up for a disk drive. When a command is received, checking for a disk
drive start command is performed. Responsive to identifying the disk drive
start command, a no-start flag is checked. Responsive to identifying the no-
start flag being set, an error code is returned without starting the disk drive.
The disk drive is started only when the no-start flag is not set. During
operation of the disk drive, the disk drive is monitored to identify a drive fault
condition. Responsive to identifying a disk drive fault, the identified disk
drive fault is checked to identify a predefined inoperative drive or dead
device fault. When a predefined dead device fault is identified, the no-start
flag is set and an error code for the predefined dead device fault is stored.
Also a no-load flag is set that is used when the disk drive is running to stop
the disk drive and return an error code before the transducer heads are
loaded.

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